



# Project Fact Sheet



## *City of Susanville Geothermal District Heating System*

### GOAL

- To provide space and domestic water heating to customers in the City of Susanville, Lassen County, California, using geothermal resources

### PROJECT DESCRIPTION

The City of Susanville geothermal system came online in 1982 and serves about 30 residential and commercial buildings, including one apartment building that has 35 units.

The two wells that serve this district heating system are 560 feet and 900 feet deep and provide fluid at temperatures of 156 and 172 degrees F, respectively. The average flow rates are about 500 GPM and 300 GPM. The exceptionally clean fluids are discharged into surface channels.

### BENEFITS TO CALIFORNIA

The City estimates a simple payback period of about nine to eleven years for those who connect to the system. In the past, the City marketed the system extensively, but now the program is operated at a minimal cost.

The City estimates that the system provides a one-third savings over using fuel oil. Natural gas has recently been installed in the Susanville area, however no existing geothermal customers have switched to natural gas, indicating a high level of satisfaction with geothermal energy provided by the City through its district heating system.

### FUNDING AMOUNT

The California Energy Commission provided co-funding for drilling, construction, and evaluation of disposal options to support development of the City's district heating system. A private individual owns one of the wells and provides fluids to the City on a contract basis, and the City owns the second well. The City operates and maintains the entire system.

Awards to the City of Susanville	\$1,075,014
Match funds, City of Susanville	<u>273,092</u>
Total	\$1,348,106

## **PROJECT STATUS**

Completed.

## **FOR MORE INFORMATION**

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